

Title (en)
Honeycomb structure and honeycomb catalyst body

Title (de)
Wabenstruktur und wabenförmiger katalytischer Körper

Title (fr)
Structure en nid d'abeille et corps catalytique en nid d'abeille

Publication
EP 2505252 A1 20121003 (EN)

Application
EP 12160981 A 20120323

Priority

- JP 2011075149 A 20110330
- JP 2012035348 A 20120221

Abstract (en)

There is provided a honeycomb structure 100 provided with porous partition walls 5 separating and forming a plurality of cells 4 functioning as fluid passages. The partition walls 5 have a plurality of communicating holes 10 for communicating adjacent cells 4 with one another. An aperture diameter of the communicating holes 10 in a cross section perpendicular to the cell 4 extension direction is smaller than the length of the longest straight line among the straight lines parallel to the surfaces of the partition walls 5 and drawn in the communicating hole 10 in the cross section. A distance between side walls forming the communicating hole 10 becomes shorter toward the aperture from the longest straight line with the longest straight line as a border line in the communicating hole 10 in the cross section.

IPC 8 full level

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CPC (source: EP US)

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Citation (applicant)

- JP 2003033664 A 20030204 - NGK INSULATORS LTD
- JP 2001269585 A 20011002 - NGK INSULATORS LTD

Citation (search report)

- [A] EP 1408207 A1 20040414 - NGK INSULATORS LTD [JP]
- [A] US 4404007 A 19830913 - TUKAO TOSHIYUKI [JP], et al
- [A] US 2005279693 A1 20051222 - KATSU MASANORI [JP], et al

Cited by

EP2735368A3; EP2641888A1; US9248440B2; US9844768B2; US9464551B2

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